Quantum

TAPE DRIVE

LTO-3 HH

High Performance Data Protection in a simple and affordable half height form factor

UP TO 400GB[1] NATIVE CAPACITY

UP TO 245GB/HR TRANSFER RATE

"BACKUP READY" SOLUTION

3 YEAR RAPID EXCHANGE WARRANTY

Quantum's LTO-3 HH tape drive provides the fastest native transfer rate of any half-height drive at 245GB/hr while offering up to 400GB of native capacity. Its simple half-height form factor allows easy installation and integration into your datacenter. The LTO-3 HH tape drive is backward read and write compatible with LTO-2 media and backward read compatible with LTO-1 media.

Quantum's exclusive FastSense™ feature maximizes the transfer rates of the LTO-3 HH tape drives by using a multiple speed sensor that matches the speed at which the drive is streaming data to optimize the backup cycle. This virtually eliminates the normal "back-hitching" that slows down many tape drives. In addition, Quantum adds exclusive features like SmartVerify™ to concurrently verify all data written to the tape, virtually eliminating the time consuming verify pass during backup operations. And, an advanced cooling design helps provide extended tape life.

The LTO-3 HH is available in a server-installable internal, convenient tabletop or space-efficient rackmount configuration. Quantum "Backup Ready" certified solutions allow you to go from box-to-backup in minutes with the highly reliable Quantum LTO-3 HH tape drive, world-class Backup Exec™ QuickStart software and durable Quantum media.

FEATURES AND BENEFITS

- Superior Performance – LTO-3 HH reaches native transfer speeds of up to 245GB/hr
- Complete Solution – Backup Exec™ QuickStart backup software plus data and cleaning cartridges
- Reliability You Can Trust – Exclusive features like SmartVerify™ and Dynamic PowerDown™
- Compatiblity – Previous generation media read and write capabilities
- LTO WORM (Write Once, Read Many) – addresses regulatory and compliance requirements

[1] Based on 2:1 compression

ULTRIUM LTO

BACKUP READY!

DRIVE CAPACITY AND PERFORMANCE

Drive Type	Cartridge Capacity Native/Compressed[1] (GB)	Drive Throughput Native/Compressed* (MB/sec)	Data Buffer (MB)	Average File Access Time (sec)
LTO-3HH	400 / 800	68 / 90	128	60

Interfaces: Ultra160 SCSI, Tabletop SCSI, 1U SCSI Rack

Burst Transfer Rate (MB/sec)

SCSI (max): 160

TAPE/FORMAT COMPATIBILITY

LTO-3 WORM (read/write): 400GB native capacity
LTO-3 (read/write): 400GB native capacity
LTO-2 (read/write): 200GB native capacity
LTO-1 (read only): 100GB native capacity

RELIABILITY

MTBF (hours): 250,000 @ 100% duty cycle
MCBF: 100,000 Load/Thread/Unload
Non-recoverable Error Rate: 1 x 10^{17} bits (non-media error, clean drive)

PHYSICAL SPECIFICATIONS

Form Factor	Internal w/o bezel	Internal w/ bezel	Tabletop
Width (in/mm)	5.76 / 146.3	5.87 / 149.1	8.35 / 212.1
Height (in/mm)	1.63 / 41.3	1.7 / 43.1	2.6 / 66.2
Length (in/mm)	8.56 / 217.5	8.76 / 222.57	10.73 / 272.49
Weight (lbs/kg)	3.66 / 1.66	3.72 / 1.69	8.0 / 3.63

ENVIRONMENTAL

Operating
Temperature °F (°C): 50° to 104° (10° to 40°)
Humidity: 80% (non-condensing)
Altitude (ft. maximum): 10,000 feet MSL (at 25˚C)
Non-Operating
Temperature °F (°C): -40° to 149° (-40° to 66°) excluding media
Humidity (%): 10 to 95 (non-condensing)
Voltage (V): +5, +12
Power Consumption (W): Less than 36 W Maximum Peak, Less than 28 W Typical

TAPE FORMAT SPECIFICATIONS

Recording Format: LTO Ultrium 3
Recording Density: 5,120 RLL-encoded ONEs per mm
Encoding Method: 0.13/11 RLL
Data Compression: ALDZ-2

COMPATIBILITY

Operating Systems: Windows Desktop, Windows Server, Novell NetWare, UNIX, Linux, Mac OS
Software/Hardware: Go to www.quantum.com for the most up-to-date tested solutions

TAPE SPECIFICATIONS

Cartridge Dimensions: 4.1" x 4.1" x 1.0" (104.1mmx104.1mmx25.4mm)
Archive Storage: 30 years
Durability: 5,000 load/unload cycles

WARRANTY

Tape: Limited lifetime
Tape Drive: 3 year limited with Rapid Exchange

[1] Based on 2:1 compression

Model Numbers and Descriptions

TC-L32AX-BR LTO-3 HH, Internal Bare, Ultra 160 SCSI, black bezel
TC-L32AX-EY LTO-3 HH, Internal Kit, Ultra 160 SCSI, black bezel
TC-L32BX-EY LTO-3 HH, Tabletop Kit, Ultra 160 SCSI, black bezel
TC-L33CX-EY LTO-3 HH, 1U Rackmount, Ultra 160 SCSI, black bezel

For contact and product information, visit quantum.com or call 800-677-6268

Quantum®

Backup. Recovery. Archive. It's What We Do.

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About Quantum

Quantum Corp. (NYSE:QTM) is the leading global storage company specializing in backup, recovery and archive. Combining focused expertise, customer-driven innovation, and platform independence, Quantum provides a comprehensive range of disk, tape, media and software solutions supported by a world-class sales and service organization. As a long-standing and trusted partner, the company works closely with a broad network of resellers, OEMs and other suppliers to meet customers' evolving data protection needs.

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